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	Application Number	09/293,670
REPLACEMENT	Confirmation Number	5176
	Attorney Docket No.	RIGL-036CIP
APPEAL BRIEF	Filing Date	April 16, 1999
Address to:	First Named Inventor	Joseph Fisher
Mail Stop Appeal Brief-Patents Commissioner for Patents	Examiner	Teresa D. Wessendorf
P.O. Box 1450	Group Art	1639
Alexandria, VA 22313-1450	Title: Multiparameter FAC Alterations in Cellular Pa Small Molecule Libraries	

Sir:

This Appeal Brief replaces the Appeal Brief filed on January 28, 2008

This Brief is filed in support of Appellants' appeal from the Examiner's Rejection dated August 10, 2007. No claims have been allowed. Claims 17-36 are pending. Claims 17-26, 30 and 32 are appealed. A Notice of Appeal was filed on November 13, 2007.

The Board of Appeals and Interferences has jurisdiction over this appeal pursuant to 35 U.S.C. §134.

It is believed that no fees are due. If, however, the PTO finds that for some reason a fee is due, the Commissioner is hereby authorized to charge any fees under 37 C.F.R. §§ 1.16, 1.17 and 1.21 which may be required by this paper, to deposit account number 50-0815, reference no. RIGL-036 CIP.

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REAL PARTY IN INTEREST

The inventors named on this patent application assigned their entire rights to the invention to Rigel Pharmaceuticals, Inc.

RELATED APPEALS AND INTERFERENCES

There are currently no other appeals or interferences known to Appellants, the undersigned Appellants' representative, or the assignee to whom the inventors assigned their rights in the instant case, which would directly affect or be directly affected by, or have a bearing on the Board's decision in the instant appeal.

STATUS OF CLAIMS

Claims 1-16 were canceled. Claims 17-36 are pending. During the course of prosecution, claims 26-29, 31, 33-36 were withdrawn by the Examiner. Claims 17-26, 30 and 32 are rejected and are appealed herein.

STATUS OF AMENDMENTS

No amendments to the claims were filed subsequent to issuance of the prior Office Action.

SUMMARY OF CLAIMED SUBJECT MATTER

The claimed invention is drawn to a method for screening for an alteration in cellular phenotype. The method includes providing a population of cells comprising a library of retroviral vectors encoding different candidate bioactive agents; sorting the population of cells based on at least five parameters using fluorescence activated cell sorting (FACS); and detecting at least one cell of the population having the alteration in the cellular phenotype. The cellular phenotype is selected from a group of cellular

phenotypes consiting of cell cycle, apoptosis, exocytosis, expression of a cell surface receptor, and expression of a receptor protein.

Below is a description of the independent claim and where support for can be found in the specification.

Independent Claim 17 claims a method of screening for an alteration in cellular phenotype (page 3, line 37 – page 4, line 1). The method includes: a) providing a population of cells comprising a library of retroviral vectors encoding different candidate bioactive agents (page 6, lines 1-11, Fig. 1, and page 19, lines 8-37); b) sorting the population of cells based on at least five parameters using fluorescence activated cell sorting (FACS) (page 4, lines 1-4; and c) detecting at least one cell of the population having the alteration in cellular phenotype (page 15, line 37 – page 16, line 1). The cellular phenotype is selected from a group of cellular phenotypes consisting of cell cycle (page 2, line 11-24), apoptosis (page 11, lines 11-17), exocytosis (page 2, line 26 – page 3, line 33), expression of a cell surface receptor (page 8, line 13), and expression of a receptor protein (page 8, lines 20-24).

GROUNDS OF REJECTION TO BE REVIEWED ON APPEAL

- I. Rejection of claims 17-24 and 30 under 35 U.S.C. § 103(a) over Uhr et al. (US 5612185) in view of Conneally et al. (*Blood* 1996, 87: 456-464).
- II. Rejection of claims 17-25, 30, and 32 under 35 U.S.C. § 103(a) over Nolan (WO 97/27212), in view of Jia-ping (*Chinese Journal of Physical Medicine* 1995, 17:168-171) and Uhr et al.
- III. Rejection of claim 26 under 35 U.S.C. § 103(a) over Nolan, in view of Jia-ping, Uhr et al., Hide et al. (*J. Cell Bio.* 1993, 123:585-593), and the Appellants' disclosure.

ARGUMENT

I. Claims 17-24 and 30 stand rejected under 35 U.S.C. § 103(a) as being obvious over Uhr et al. in view of Conneally et al.

Claims 17-24 and 30 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Uhr et al. (US 5612185) in view of Conneally et al. (*Blood* 1996 87: 456-464). As best understood by the Appellants, the Examiner believes that Uhr's method for identification of tumor cell types, together with Conneally's teaching of retroviral-mediated gene transfer, renders the claims obvious.

The following arguments are directed to all claims. For the purposes of this appeal, all claims stand or fall together. Claim 17 is representative and set forth below.

- 17. A method of screening for an alteration in cellular phenotype, said method comprising:
- a) providing a population of cells comprising a library of retroviral vectors encoding different candidate bioactive agents;
- b) sorting said population of cells based on at least five parameters using fluorescence activated cell sorting (FACS); and
- c) detecting at least one cell of said population having said alteration in said cellular phenotype;

wherein said cellular phenotype is selected from a group of cellular phenotypes consisting of cell cycle, apoptosis, exocytosis, expression of a cell surface receptor, and expression of a receptor protein.

In a nutshell, the Appellants submit that the claims are not obvious in view of the cited references because neither of the cited references provide a library of retroviral vectors.

As best understood by the Appellants, the Examiner believes that Uhr's method for identifying tumor cell types, in combination with Conneally's method of retroviral-mediated gene transfer, renders the claims obvious.

In order to meet its burden in establishing a rejection under 35 U.S.C. § 103 the Office must first demonstrate that the combined prior art references teach or suggest all the claimed limitations, so as to present

A finding that the prior art included each element claimed [...] with the only

difference between the claimed invention and the prior art being the lack of actual combination...¹

It is also well established that rejections based on obviousness cannot be sustained by mere conclusory statements; instead, there must be some articulated reasoning to demonstrate that a person of ordinary skill in the art would have been prompted to combine elements in the way a claimed invention does. See also e.g., KSR Int'l Co. v. Teleflex Inc., 127 S. Ct. 1727, 1740 (2007):

"[A] patent composed of several elements is not proved obvious merely by demonstrating that each of its elements was, independently, known in the prior art."

As set forth in the arguments below, the Appellants contend that all cited references are deficient for not teaching or suggesting a method that involves cells comprising a library of retroviral vectors, as required by the rejected claims.

In maintaining this rejection, the Examiner points towards Uhr's column 22, lines 14-20, Fig. 3, and Example 2 and argues that those sections teach a library of retroviral vectors encoding different candidate bioactive agents. However, a detailed analysis of these sections reveals that Uhr does not teach or suggest a population of cells comprising a library of retroviral vectors. When read in context, Uhr, in column 22, teaches that tumor cell cycle arrest may be induced by gene therapy and that a retrovirus may be used to introduce gene constructs. Likewise, Uhr's Fig.3 and Example 2 relate to the expression of oncogenes in tumor cells by assessing mRNA levels of c-myc and c-fos. Hence, these passages are unrelated to cells comprising a library of retroviral vectors.

At no point in Uhr's disclosure, including passages relied upon by the Examiner, does Uhr teach or suggest a library of retroviral vectors.

1 Federal Register vol. 72, No. 195, Oct 10, 2007. *In re Royka*, 490 F.2d 981, 180 USPQ 580 (CCPA 1974)

² See also Pharmastem Therapeutics v. Viacell et al., 2007 U.S. App. LEXIS 16245 (Fed. Cir. 2007); Omegaflex, Inc. v. Parker-Hannifin Corp., 2007 U.S. App. LEXIS 14308 (Fed. Cir. 2007) Dystar Textilfarben GmbH v. C.H. Patrick Co., 464 F.3d 1356, 1360 (Fed. Cir. 2006) In re Kahn, 441 F.3d 977,985 (Fed. Cir. 2006). Medichem, 437 F.3d at 1164. *In re Fulton*, 391 F.3d 1195, 1199-1200 (Fed. Cir. 2004)

In attempting to fill the void between Uhr's disclosure and the rejected claims, the Examiner cites Conneally and asserts the Conneally's teaching of retroviral-mediated gene transfer renders the rejected claims obvious. However, Conneally, like Uhr, fails to provide a library of retroviral vectors. Specifically, in the discussion section cited by the Examiner, Conneally teaches that having a cell surface marker such as CD24 encoded by retroviral constructs can facilitate identification and selection of cells. This passage does not provide a library of retroviral vectors, as recited in claim 17.

For each of the reasons set forth above, Uhr alone or in combination with Conneally does not teach or suggest each and every element of the rejected claims. Since Claim 17 is the only independent claim of this application, the arguments presented above apply with equal force all other rejected claims. Therefore, the Appellants respectfully request the reversal of 103(a) rejections of claims 17-24 and 30 on this basis.

II. Claims 17-25, 30, and 32 are rejected under 35 U.S.C. § 103(a) as being obvious over Nolan, in view of Jia-ping and Uhr et al.

Claims 17-25, 30, and 32 are rejected under 35 U.S.C. § 103(a) as being unpatentable over Nolan et al. (WO 97/27212) in view of Jia et al. (*Chinese Journal of Physical Medicine*), and in further view of Uhr et al. The following arguments are directed to all claims.

The Appellants submit that Nolan cannot preclude the patentability of the rejected claims for the reasons set forth below.

This instant application's earliest priority date is April 17, 1998, as indicated on the filing receipt and the application data sheet of this application. The relevant section of the filing receipt is reproduced below for the Board's convenience.

Domestic Priority data as claimed by applicant

This application is a CIP of 09/157,748 09/21/1998 PAT 6,461,813 which is a CIP of 09/062,330 04/17/1998 PAT 6,897,031

Thus, the instant application claims priority to an application (09/062,330) that was filed on *April 17, 1998*.

Nolan's publication date (July 31, 1997) predates the earliest priority date of this application (April 17, 1997) by less than a year. As such, Nolan only qualifies as prior art only under 35 U.S.C. § 102(a)³.

A Declaration under 35 U.S.C. § 1.131 (the "Fisher Declaration"; submitted herein in the Evidence Appendix of this brief) was submitted with the Appellants' response dated July 24, 2006, in order to obviate a rejection over a similar combination of references (i.e., Nolan in view of Jai-ping or Ryan). The Fisher Declaration establishes invention of the subject matter of the rejected claims prior to the Nolan's publication date and, as such, Nolan cannot preclude the patentability of the instant claims.

In maintaining this rejection, the Examiner neither discusses the contents of the Fisher Declaration nor provides any evidence that the Applicants did not antedate Nolan's publication date. Rather, the Examiner counters the Appellants' position by simply stating that:

"Nolan reference was published more than one year of applicants' earliest filing date. Thus, the 35 U.S.C. § 1.131 declaration does not overcome the 103 rejection...."

See page 13 of the Office Action dated August 10, 2007.

As noted above, however, the filing receipt itself states that this application claims priority to an application that was filed on *April 17, 1998*. Since Nolan was published on July 31, 1997, Nolan was published *less than* one year before the Appellants' earliest priority date. As such, the Examiner's position, i.e., that "Nolan was published more than one year of applicants' earliest filing date" lacks support.

In view of the foregoing discussion, the Applicants submit that Nolan is

³ The PCT application upon which Nolan's publication (WO97/27212) is based was filed on January 23, 1997. Nolan's filing date is *prior to* the November 19, 2000 date of enactment of amended 35 U.S.C. § 102(e). As such, Nolan is not available as prior art as of its filing date, and

disqualified as a prior art reference and cannot preclude the patentability of the instant

claims. Thus, this rejection should be reversed.

III. Claims 26 stands rejected under 35 U.S.C. § 103(a) as being obvious over Nolan, in view of Jia-ping, Uhr et al., Hide et al., and the Appellants' disclosure.

Claim 26 is rejected under 35 U.S.C. § 103(a) as being unpatentable over Nolan et al., in view of Jia et al., Uhr et al. and the Appellants' disclosure. The following arguments are directed to all claims.

As noted in the previous section, the Appellants submit that Nolan cannot be used as prior art under 35 U.S.C. § 103(a) because the subject invention predates the publication date of Nolan.

As such, the Appellants submit that Nolan is disqualified as a prior art reference and cannot preclude the patentability of the instant claims. The Appellants respectfully request the reversal of this rejection.

SUMMARY

I. Claims 17-24 and 30 are not obvious under 35 U.S.C. § 103(a) over Uhr et al. (US 5612185) in view of Conneally et al.

- II. Claims 17-25, 30, and 32 are not obvious 35 U.S.C. § 103(a) over Nolan (WO 97/27212), in view of Jia-ping and Uhr et al.
- III. Claims 26 is not obvious under 35 U.S.C. § 103(a) over Nolan, in view of Jiaping, Uhr et al., Hide et al., and the Appellants' disclosure.

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RELIEF REQUESTED

The Appellants respectfully request that the rejections of Claims 17-26, 30, and 32

under 35 U.S.C. § 103(a) be reversed, and that the application be remanded to the

Examiner with instructions to issue a Notice of Allowance.

Respectfully submitted,

Date: May 7, 2008

By: /James S. Keddie, Reg. No. 48,920/

James S. Keddie, Ph.D. Registration No. 48,920

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CLAIMS APPENDIX

1-16. (Cancelled)

17. (Previously presented) A method of screening for an alteration in cellular

phenotype, said method comprising:

a) providing a population of cells comprising a library of retroviral vectors

encoding different candidate bioactive agents;

b) sorting said population of cells based on at least five parameters using

fluorescence activated cell sorting (FACS); and

c) detecting at least one cell of said population having said alteration in said

cellular phenotype;

wherein said cellular phenotype is selected from a group of cellular phenotypes

consisting of cell cycle, apoptosis, exocytosis, expression of a cell surface receptor, and

expression of a receptor protein.

18. (Previously presented) The method according to Claim 17, wherein said

candidate agent comprises a fusion partner.

19. (Previously presented) The method according to Claim 18, wherein said fusion

partner is a fluorescent protein.

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20. (Previously presented) The method according to Claim 19, wherein said

fluorescent protein is a green fluorescent protein (GFP).

21. (Previously presented) The method of Claim 17, wherein the cell is a mammalian

cell.

22. (Previously presented) The method of Claim 21, wherein said mammalian cell is

a tumor cell.

23. (Previously presented) The method of Claim 21, wherein said mammalian cell is

a human cell.

24. (Previously presented) The method of Claim 23, wherein said human cell is a

human tumor cell.

25. (Previously presented) The method of Claim 17, wherein said cellular phenotype

is exocytosis.

26. (Previously presented) The method of Claim 25, wherein said sorting of said

population of cells using fluorescence activated cell sorting (FACS) is based on at least

five parameters selected from the group consisting of: light scattering, fluorescent dye

update, fluorescent dye release, annexin granule binding, surface granule enzyme

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activity, and the quantity of granule specific proteins.

27. (Withdrawn) The method of Claim 26, wherein at least one of said five

parameters is fluorescent dye uptake and wherein said fluorescent dye is a styryl dye.

28. (Withdrawn) The method of Claim 26, wherein at least one of said five

parameters is surface granule enzyme activity and wherein said surface granule

enzyme activity is detected using a FRET construct.

29. (Withdrawn) The method of Claim 26, wherein at least one of said five

parameters is fluorescent dye release and wherein said fluorescent dye is a low pH

concentration dye.

30. (Previously presented) The method of Claim 17, wherein the candidate bioactive

agents are proteins or peptides.

31. (Previously presented) The method of Claim 17, wherein the candidate bioactive

agents are small organic molecules.

32. (Previously presented) The method of Claim 17, further comprising comparing

results obtained from said method to results obtained using a positive control, wherein

the positive control is p21.

33. (Withdrawn) A method of screening for an alteration in cellular phenotype ,said

method comprising:

a) combining a population of cells with a candidate bioactive agent;

b) sorting said population of cells based on at least five parameters using fluorescence

activated cell sorting (FACS); and

c) detecting at least one cell of said population having said alteration in said cellular

phenotype;

wherein said cellular phenotype is selected from a group of cellular phenotypes

consisting of cell cycle, apoptosis, exocytosis, expression of a cell surface receptor, and

expression of a reporter gent.

34. (Withdrawn) The method of Claim 31, wherein said cellular phenotype is

exocytosis.

35. (Withdrawn) The method of Claim 32, wherein said sorting of said population of

cells using fluorescence activated cell sorting (FACS) is based upon at least five

parameters selected from the group consisting of: light scattering, fluorescent dye

uptake, fluorescent dye release, annexin granule binding, surface granule enzyme

activity, and the quantity of granule specific proteins.

36. (Withdrawn) The method of Claim 17, wherein said candidate bioactive agent is

obtained from a library of synthetic or natural compounds.

EVIDENCE APPENDIX

A Declaration under 35 U.S.C. \S 1.131 (the "Fisher Declaration") is provided in this appendix.



	Application Number	09/293,670
	Confirmation Number	5176
DECLARATION OF	Filing Date	April 16, 1999
JOSEPH FISHER UNDER 37 C.F.R. §1.131	First Named Inventor	Joseph Fisher
,	Examiner	Teresa Wessendorf
	Group Art	1639
*	Attorney Docket No.	RIGL-036CIP

This Declaration with the attached Exhibits are being submitted in conjunction with the Applicants' Response to the Office Action dated February 24, 2006.

I, Joseph Fisher, M.D. Ph.D. do hereby declare as follows.

- 1. I am listed as an inventor of the above-referenced patent application.
- 2. Between June and September, 1997, I was a Scientist at Rigel Pharmaceuticals, Inc. (hereinafter "Rigel"). During this time, I was part of a program focused on the discovery of intracellularly-active peptides. The strategy employed by this program involved infecting cells with a library of retroviral vectors encoding candidate peptides, and selecting cells with an altered phenotype using fluorescence activated cell sorting (FACS)-based methods. The idea of using more than five FACS parameters to identify retrovirally-delivered, intracellularly-active peptides was developed before July 31, 1997.
- I understand that the claimed subject matter of the above-referenced patent
 application relates to screening methods that include sorting a population of retrovirally
 infected cells using at least five fluorescence activated cell sorting (FACS) parameters. I

have been asked to provide factual evidence relating to my activities at Rigel with respect to the claimed subject matter before and after July 31, 1997.

- 4. Experiments confirming the applicability of FACS-based screening methods that employ at least five FACS parameters to the discovery of retrovirally-delivered intracellularly-active bioactive peptides were performed prior to July 31, 1997.
- 5. Exhibit A, which is a copy of pages 24 and 25 of my laboratory notebook, describes the results of an experiment in which cells were treated to induce exocytosis, and sorted using five FACS parameters. Exhibit A is dated prior to July 31, 1997. The top four graphs of page 25 show FACS results obtained from DMSO-treated cells (control), and the bottom four graphs of page 25 show FACS results obtained from A23187-treated cells (experimental). The top left graph of each group of four graphs shows results obtained from the parameter used to detect FM143, a fluorescent dye. The top right graph of each group of four graphs shows results obtained from the parameter used to detect FITC, another fluorescent dye. The bottom left graph shows results obtained from the parameter used to detect propidium iodide. The bottom right graph shows results obtained from parameter used to detect front light scatter as well as, independently, the parameter used to detect side light scatter. Thus, Exhibit A demonstrates the applicability of FACS methods that employ at least five FACS parameters to the discovery of retrovirally-delivered intracellularly-active bioactive peptides, before July 31, 1997.
- 6. Exhibit B, which is a copy of pages 112 to 120 of my laboratory notebook, describes an experiment in which and MC9 and CEM cells are transfected with a library of retroviral vectors that encode peptides. Exhibit B demonstrates that CEM and MC9 cells were transfected with a library of retroviral vectors between August 22 and August 27, 1997.

7. In September 1997, a method that included infecting cells with a library of retroviral vectors encoding candidate bioactive peptides, and selecting cells with an altered phenotype using five fluorescence FACS parameters was reduced to practice.

8. Exhibit C, which is a copy of pages 138 and 139 my laboratory notebook, describes an experiment in which retroviral vector library-infected cells are stimulated staurosporine to induce apoptosis, and sorted using five FACS parameters: side scatter ("ssc"), front light scatter ("fsc"), and three separate fluorescence parameters: ("fl1", "fl2" and "fl3"). Results for control cells not contacted with staurosporine are shown in the graphs on the left hand side of page 139, and results for experimental staurosporine-treated cells are shown in the graphs of the right hand side of page 139. Thus, Exhibit C demonstrates reduction to practice of a method that includes infecting cells with a library of retroviral vectors encoding candidate bioactive peptides, and selecting cells with an altered phenotype using five FACS parameters, on September 8, 1997.

9. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: June 25, 2006

Joseph Fisher, M.D. Ph.D.,

Attachments: Exhibits A - C

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Book No....

TITLE

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8/22/97

Phoenix E Cell Transfectives => For My cell Infections

- Use Susans Protocol (x2) So 2 hells of 6 hell Plate / Transfection

- ONA- From Jenny Wary 1 (10Mg) = 6.6% Rab3a and Synaphotogram

2 6.3% Constructs

3 8.9% Rundis Nomentate

4 9.1% [Jims Nomentate

4 9.1% [Jims Nomentate

5 - New IRES Hook 43-13 129.13 10Mg = 11.6%

From 6-11 11 6FP 610.25 010-25 10Mg = 11.1%

- Follow Siscus Protocol- Put Preciptale / Changine on cells at 11AM - Mici Pepper & Preciptale Scen on all Transfertats

Protocol on most Page.

[7PM] = Asprate OWA

- Unst IX is Process Medic
- Add 2ml/rell From Media

in Page Me.

Witnessed & Understood by me,

Date Wheless

Invented by Jan FM

Date 8/22/97

1	age No			
	Protocol for transfection of Ph	oenix cells and in	nfection of nona	dherent target cells
***				•
. .	Day 1: seed Phoenix cells (Es or As) in 6 well plate	es at 8x10 ⁵ cells in 1.5 m	l (DMEM + 10% FBS	+ P/S) per well
	Day 2: CaPO ₄ Transfection		Zueils	
	per well:	5ug DNA	10Mg DNA	.1-
ranen		30.5ul 2M CaCl₂ 219ul H₂O	61× 2MC	
		250ul 2X HBS	4382 Hzi 5002 221	
	allow all reagents to come to room temperat	aire 30mins, before start	**************************************	
	and an reagonts to come to room temperat	GIO SOMINIO, COLORO SIGIL	(ao not maini ap n	· · · · · · · · · · · · · · · · · · ·
	add 50mM chloroquine at 2ul/well (50um fir	nal)		•
	mix CaPO, reagents in 15ml polypro	pylene tube:		
M-1.7	pipet 5ug DNA to side of tube pipet 30.5ul of 2M CaCL ₂ away from the D	NA		
	mix the two together with the addition of 21	9ul of miliQ H ₂ O		
	then using a 1ml pipet, add 250ul of 2X HF HBS batch dependent)	3S and quickly bubble a	ir through the pipet fo	r 2 to 10 secs. (the time is 2
	immediately add mixture dropwise to well			
	microscopically visible precipitate should ap	pear within a few minut	es	
n-n				
	remove medium, wash once, and replace wi	th 1.5ml medium		
_	Day3:			
	move transfected plates to 32°C			
	Day 4: Infection of target cells			
	collect virus supernatent from transfected w	ells (1.5 ml) into 15 ml	tubes and add either 1.	5ul of 5mg/ml polybrene
	or 1.5ul 5mg/ml protamine sulfate cfg out cells and debris at 2500 RPM for 5 r	mine or alternatively fil	ter through 45um acr	odisc syringe filter
-	count target cells and distribute 5x10 ⁵ cells r	per virus supe to 15ml tu	ibes and pellet 5 mins.	2500 RPM
	resuspend each pellet of target cells with vin	us supe and transfer to o	one well of a 24 well pl	ate
	seal plate with parafilm and cfg at RT for 90 Remove parafilm and incubate plate over nig	ght at 32°C		
	Day 5: collect and pellet each well of target cells and	d resuspend in 4ml and t	ransfer each to a 6cm	nlate
	concer and penet each wen or target cens and	a resuspena in Tim and t	ambier each to a colli	in the second se
	Day 7 or Day 8: at 48 to 72 hrs. post infection target cells are	e ready to analyze for ex	pression	
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- Transfections of \$E Cells (Cont.)

- This morning. 24 hrs post Transfection Start

Lock at Cells by Flucescene.

6FP @ Colls Scen in #3, 4, and 6
3 and 4 must be CTIG Vector (induable with Ires GFP)

land 2 " be not Hook vector.

- Remoe old Media

- Add 2mil well of Warmed MC7 Media - 12AM

MC9 Paste Castrol Reptices

MC9 GIIS- LIT
Softed Hook ~75% Hooked From AmySynaptotymn ~50% "
RAB

Via in PACSCAN

- 001 WT

- 2 HOOK

- 3 Synaphologim

- 4 RAB

S - Wt 6 + WT 7 - HOUK 8 + Synaptotagn. 10 + "11 11 - RAB 12

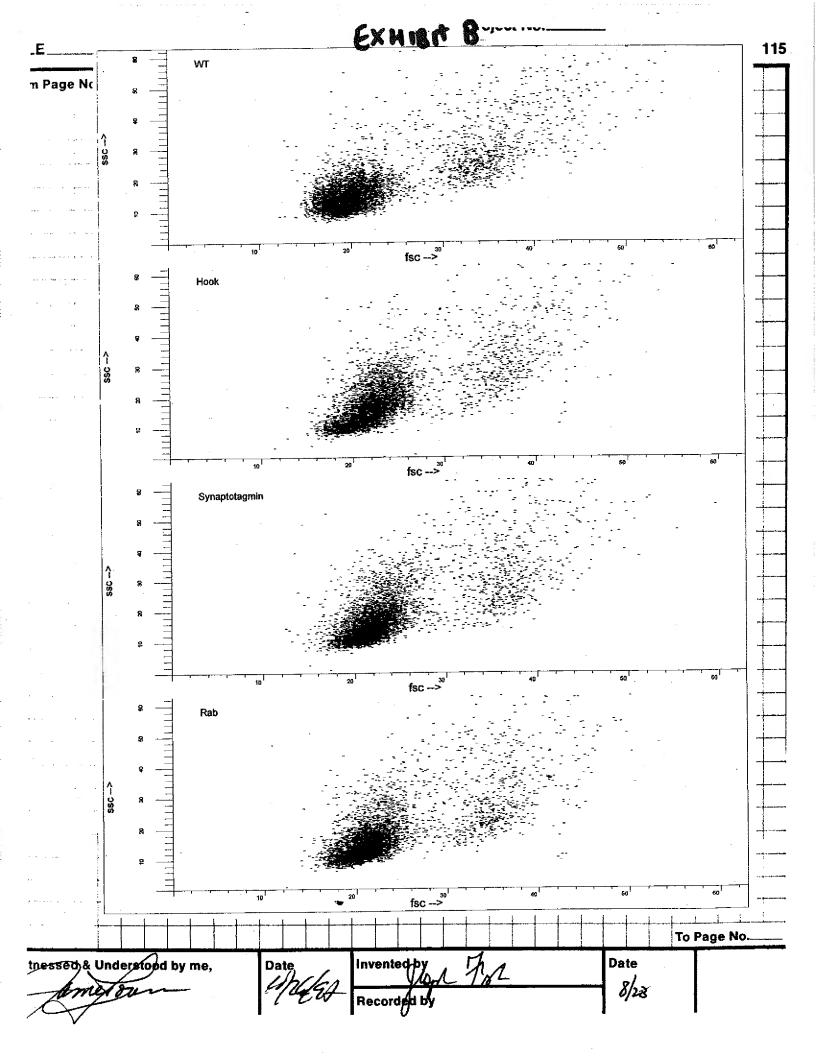
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= MC9 Cell Infe	etine (Cont		
- hells 3/4+6	of Transfeo	tiens Lock Significantly Brighte for	GFP Than per
old an 8/23		J.	<u>d</u>
- NIPH Rema	Wral Syp	e - Spin at 2500 RAM x 15' R	t
- Mc9 Cells ~	2.5 x 10 /ml		
- Spn Jan 2	ml x 6 Mc	9 0015 (1 52106 /TULE)	
- Add Ural Tup	es		
- Drube Face	10 2 he	45 of a 6 well place (~2mi	/2.5x106 (els/well)
Add 42 a	Spag/mil	olyanine Suttate / hell So FC	E 10 Mg/ml
- Sed Plates an	1 Son to	90' ort 2500 RPM	
- Cutture On af	3776 ()	3:30 Pri ->	
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- MC9 Cell Hagest - Fax	Forthe co	MA Librar Construction	
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(alis ~ 22/04/ml	-		e ele
- Spin dan 200m			
West 22 in Cold 1	PBS / Aspirate		
	ce - 2 tu	ox Zilo Cells/ture	· · · · · · · · · · · · · · · · · · ·
- Stee at -80°C			
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826	(1			<u> </u>		i	and the second
	Mc9 Infectors (Con 2x6 har Plates	t)					A CONTRACTOR OF THE CONTRACTOR
	- ~ 11 AM Take Glu	out of Lells/ Pool,	Wash Lelb	Loft 2ml	ACT HO	lis, Spin,	Deal
	Take up Pellets 171	6 with 12ml MC	9 Media a	and Plates	i 7.75	.	
	7) Quick Look at #6	Shared some GFP	1 Colls	·			
		6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6				44.	: Parado ar sus apropress sales ()
4	res GFP Library For Tr	anstadia				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	-Susan Plated 20 - Randy Suppled DuA - For Each 60mm f	60 mm Plates o 10-62 Library - Plate add (Plates				~ 40%	Confled
		82 Chlorogure	(SOMM)		أيد		
-		long ONA (11.8 X		· · · · · · · · · · · · · · · · · · ·	: 	
	,	1222 Ca47			steded 17		from
		8762 HZO		17.	30A1 -> ^/Z	30 Am	
•		/m1 2> HBS	_				
:		Follow Standard I	praedul			4	
				•		•• • •	
	~ 6:30PM		•				

- Asprate Medici
- West cells 1x in PBS + Catt Plate
 Add Warm Mc9 Media 8 ml/ Etask
- 37°C ~ 7PM

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CEM - Library Infection

Libray in 100 CFP, ~106 Complexity of 2nd pardom 14-ma Reptices - Art of 2nd Tage Sween Libray.

- Yesterday Susan S. Art CEM Media on Library Infected GA Cells (After She Havested her virus ~3PM) - Today Remae Supers (~4PM) Spin at 2500 RPM × 10', Add PS to 10 Mg/ml

- CEM cells, ~ 1/x10//ml

Spri Dan 60ml (~ 6.6×107 Cells total)

- Ourie Pellets into 8 x12ml Supers > / 867.753 = 8.25 × 106 cells/Flask
Spiri T.755 at 2500 RPM

4:45 - 6:15

Tale out and Put at 37°C ON

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CEM-Library Infected- Apaptors Induction

XX gae me Libray Infected Cells to test Own Resure Methods - CEM ~ 2.4×106/ml Take 8ml (2xx0 Cells) +4ml Fresh Media, Brig to Inth Staurasponne .015 GFP ONLY

9 37°C 10An -> \$PM (6 Hars)

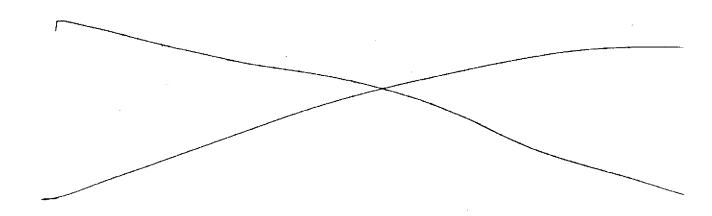
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CEM-Library - Stavospane treatment 2 (9/3) - Nov 5 days post treatment

Take , Sml of Cuther Add PI - FACSCAN- . OOI - Libing untrated .002 Treated Stavo 22

MC9 4bry - GPP Ennoted)

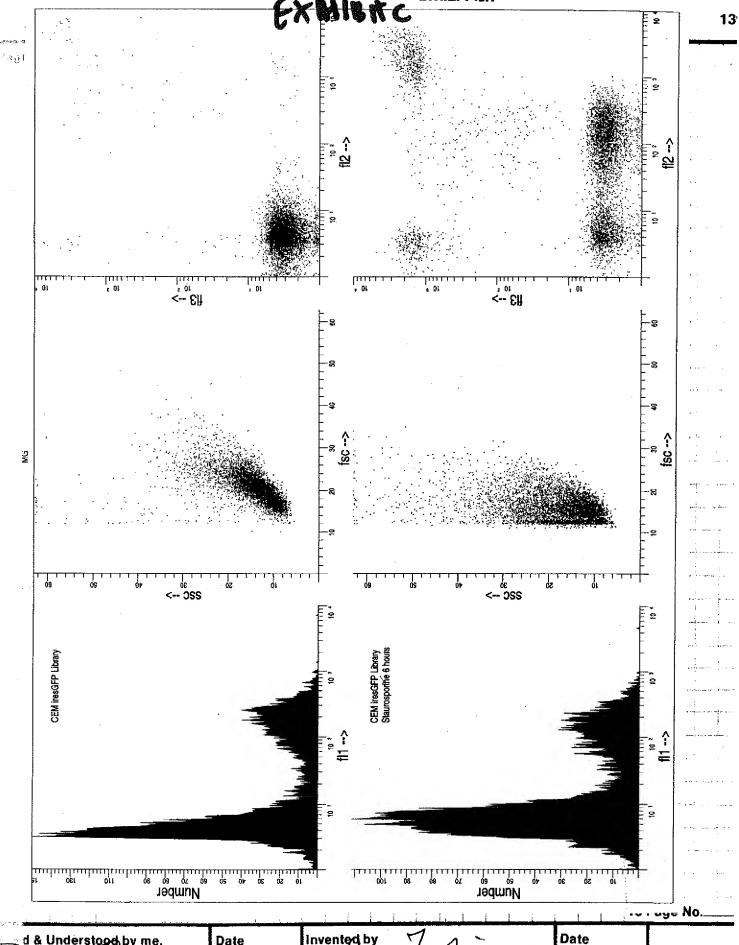
- GFP Ennoted Cells From Lest Leek now ~ 2.8 x 106 /ml x 100 ml
- Solit Back to ~ 106/ml For Tomorra's Sort
- Remarks of calls, ~ 2×108 cells SprilDecad, Freeze is 5 vials (4×107/vial) at -80°C)



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Invented by
Recorded by

Date 9/8/97

RELATED PROCEEDINGS APPENDIX

As stated in the *Related Appeals and Interferences* section above, there are no other appeals or interferences known to Appellants, the undersigned Appellants' representative, or the assignee to whom the inventors assigned their rights in the instant case, which would directly affect or be directly affected by, or have a bearing on the Board's decision in the instant appeal. As such this section is left blank.